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Институт цифрового образования  
Департамент информатики, управления и технологий

ДИСЦИПЛИНА: «Распределенные системы»

**Отчет по практической работе №4**

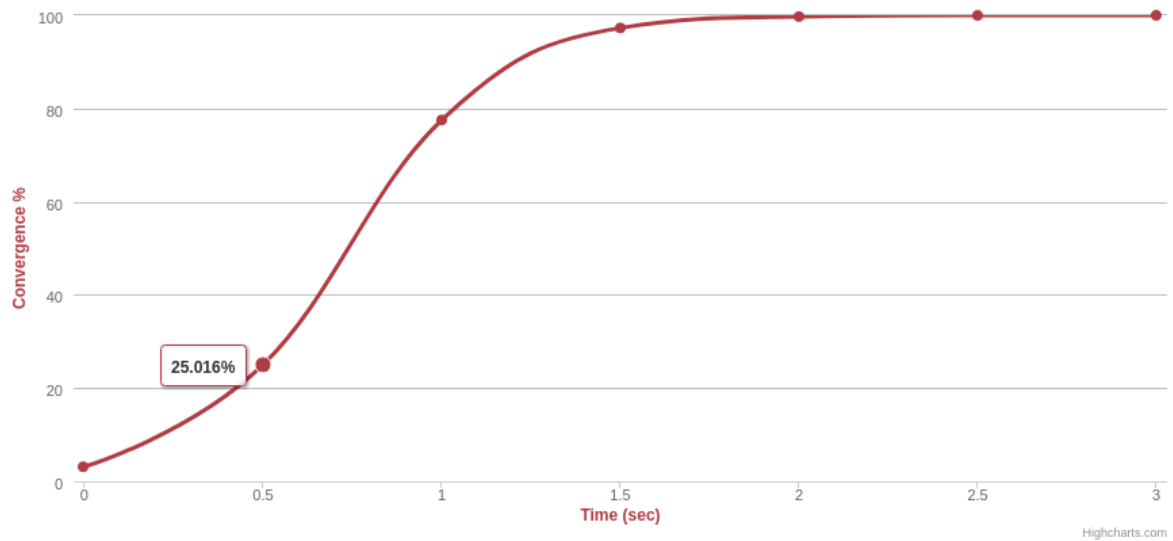
**Тема:**

**«Failure\_detection»**

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Москва  
2022

## Вариант первый при 25%



Estimated max bandwidth: 1093.8 kbps/node

### GOSSIP INTERVAL

The gossip interval controls how often messages are gossiped to other nodes

0.5 seconds

### GOSSIP FANOUT

The gossip fanout controls how many nodes we gossip with

25 nodes

### NODES

This controls how many simulated nodes are in the cluster

30

### PACKET LOSS

This controls the amount of simulated packet loss [0, 100]

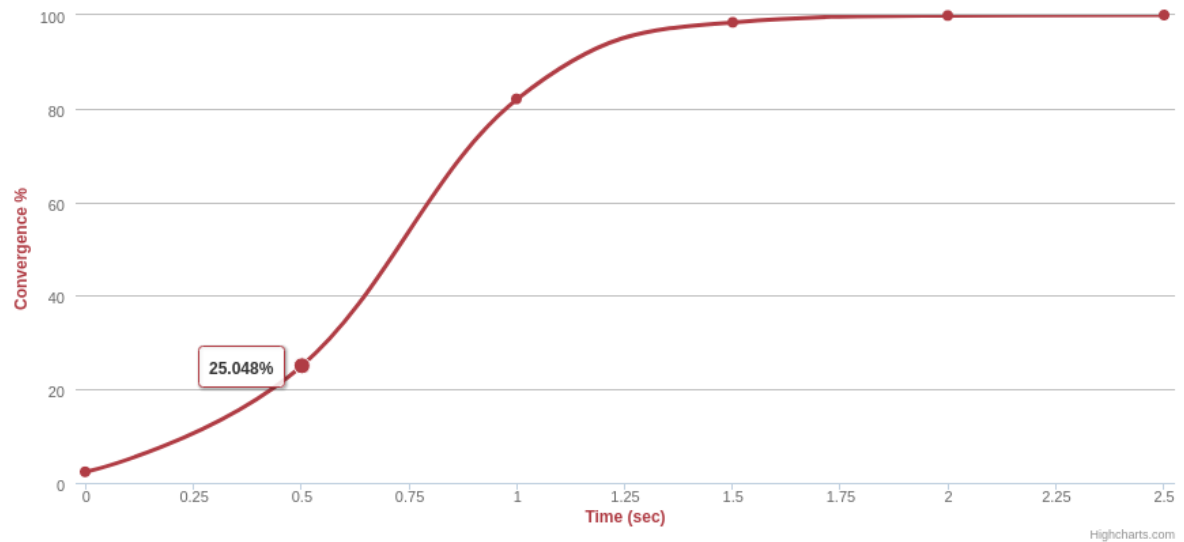
37.7 % lost packets

### NODE FAILURES

This controls what percent of simulated nodes are failed

70 % failed

## Второй вариант при 25%



#### GOSSIP INTERVAL

The gossip interval controls how often messages are gossiped to other nodes

0.5 seconds

#### GOSSIP FANOUT

The gossip fanout controls how many nodes we gossip with

50 nodes

#### NODES

This controls how many simulated nodes are in the cluster

40

#### PACKET LOSS

This controls the amount of simulated packet loss [0, 100)

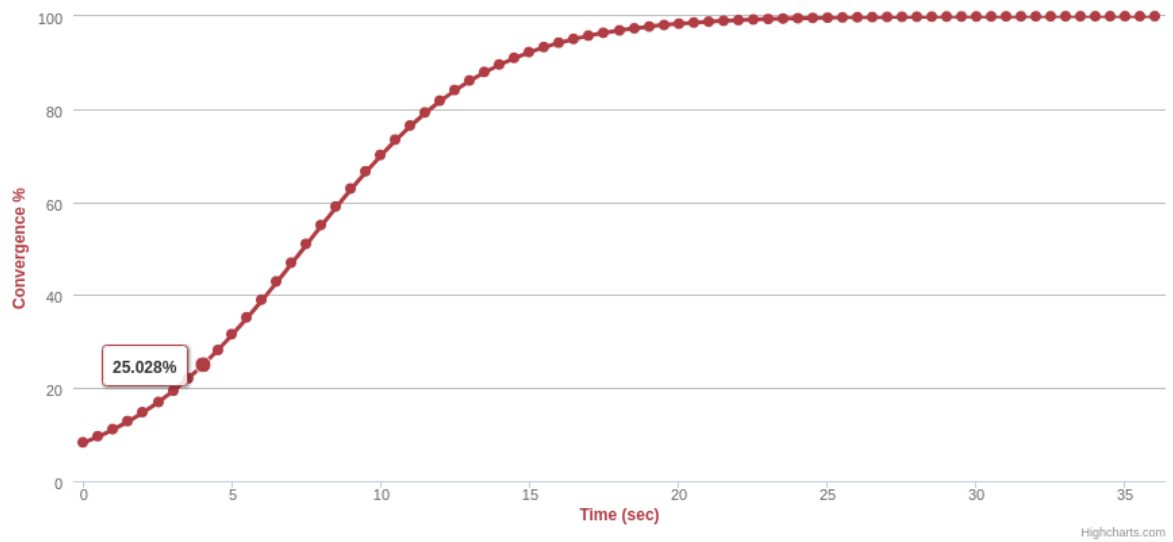
65.1 % lost packets

#### NODE FAILURES

This controls what percent of simulated nodes are failed

70 % failed

**Третий вариант при 25%**



#### GOSSIP INTERVAL

The gossip interval controls how often messages are gossiped to other nodes

seconds

#### GOSSIP FANOUT

The gossip fanout controls how many nodes we gossip with

nodes

#### NODES

This controls how many simulated nodes are in the cluster

#### PACKET LOSS

This controls the amount of simulated packet loss [0, 100)

% lost packets

#### NODE FAILURES

This controls what percent of simulated nodes are failed

% failed